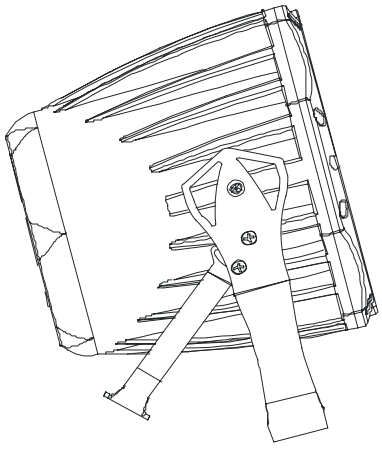
PARLED AQUA

TE-X36RGB

USER MANUAL



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sales@te-lighting.com
http://www.te-lighting.com

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1 PRODUCT (GENERAL)

1.1 PRODUCT INTRODUCTION

This product is designed for indoor or outdoor use. Suitable applications include wash or effect lighting for architectural, stage or nightclub applications. This product can also be installed for use in signage and advertising using the dynamic functions available with DMX512 control. Direct input of DMX512 signal allows the units to be controlled from any DMX512 controller. This product can be operated as a single unit or in multiple units for large applications.

The specially developed controller that allows the product to be controlled independent of the DMX512 controllerenables the user to create and edit a wide range of custom programs. All programs can be touch-button displayed or scheduled to START and END at scheduled times. When programs have been created or edited in the controller, it is also possible to trigger these programsusing the DMXIN function when connected to a DMX512 controller.

1.2 PRODUCT FEATURES

LED FIXTURE

* RGB Dimmer 0-100%
* Strobe
* Automatic programs
* IP65 protection rating
* LED display
* Display control 'lock-out'
* Direct DMX512 input
* Independant ID address
* Lightweight aluminium casing

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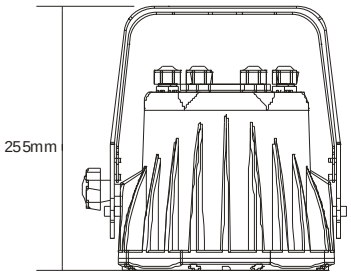
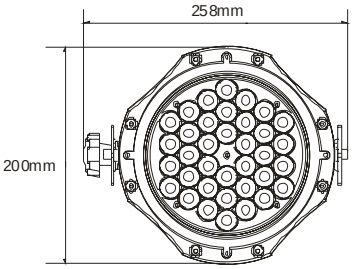
1.3 TECHNICAL SPECIFICATIONS

LED MODULE

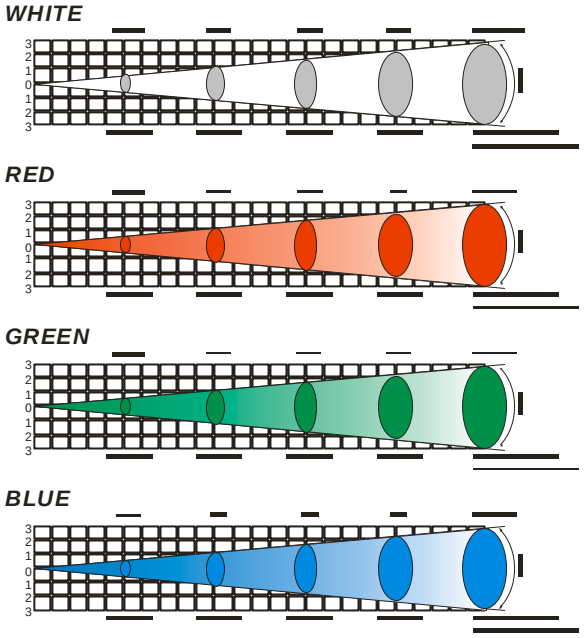
LED MODULE:	
Voltage	100~240V...50/60Hz
Rated Power	46W
IP	IP65 protection rating
LED/Unit	36pcs(12 x RED / 12x GREEN / 12 xBLUE)
Output/LED	1W
Environment Temperature	-20℃~40℃
Cooling	Direct air convection
Dimensions	255 x 200 x 258 mm
Weight	4Kg





1.4 PHOTOMETRIC DATA

PHOTOMETRIC DATA



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1.5 SAFETY WARNING

IMPORTANT

【ALWAYS READ THE USER MANUAL BEFORE OPERATION. 】
【PLEASE CONFIRM THAT THE POWER SUPPLY STATED ON THE PRODUCT IS THE SAME AS THE MAINS POWER SUPPLY IN YOUR AREA.】

- This product must be installed by a qualified professional.
- Always operate the equipment as described in the user manual.
- A minimum distance of 0.5m must be maintained between the equipment and combustible surface.
- The product must always be placed in a well ventilated area.
- Always make sure that the equipment is installed securely.
- DO NOT stand close to the equipment and stare directly into the LED light source.
- Always disconnect the power supply before attempting and maintenance.
- Always make sure that the supporting structure is solid and can support the combined weight of the products.
- The earth wire must always be connected to the ground.
- Do not touch the power cables if your hands are wet.

ATTENTION

⚠ATTENTION⚠

- This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.
- Avoid shaking or strong impacts to any part of the equipment.
- Make sure that all parts of the equipment are kept clean and free of dust.
- Always make sure that the power connections are connected correct and secure.
- If there is any malfunction of the equipment, contact your distributor immediately.
- When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.

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2 INSTALLATION

2.1 MOUNTING

HANGING

The LED PAR can be mounted in a hanging position using the supporting bracket. The bracket should be secured to the mounting truss or structure using a standard mounting clamp. Please note that when hanging the unit a safety cable should also be used.

UPRIGHT

The LED PAR can be mounted in an upright or sitting position using the supporting brackets.

NOTE	**The LED MODULE can be mounted at any angle and in any position. It is possible to further adjust the angle of the LED MODULE using the two adjustment knobs located on the side of the fixture.**

2.2 POWER CONNECTIONS

@ 220V: 40 units may be connected in series

@120V: 20 units may be connected in series

Note: As this fixture's DMX signal cable connection had been changed to Parallel connection, so if over 32 units to be connected, then a DMX signal amplifier is needed.

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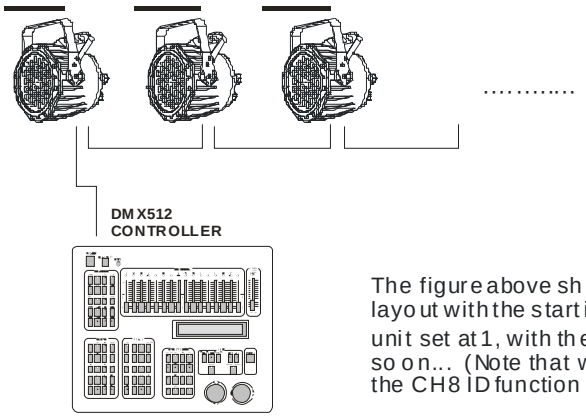
2.3 SETTING UP WITH A DMX512 CONTROLLER

2.3-1 DMX512 ADDRESSING WITHOUT ID ADDRESSING (STAG MODE)

- Connect the DMX512 controller to the units in series.
- Each unit has 9 DMX channels so the DMX Addresses should increase by increments of 9 (e.g. 1,10,19,28...)
- The ID address has not been set so therefore when using the controller CH8 must be inactive (CH8=0).
- Each DMX Address may be used as many times as required.
- Any DMX address in the range from 001 to 512 may be used.

Example:



The figure above shows a simple DMX512 layout with the starting address of the first unit set at 1, with the second set at 10 and so on... (Note that when used in this way, the CH8 ID function must be inactive (CH8=0))

2.3-2 DMX512 ADDRESSING WITH ID ADDRESS (STAG MODE)

- Connect the DMX512 controller to the units in series
- Each unit has 9 DMX channels so the DMX Addresses should increase by increments of 9 (e.g. 1,10,19,28...)
- Each DMX Address may be used as many times as required.
- Any DMX address in the range from 001 to 512 may be used.
- Each DMX address may carry up to 66 separate ID addresses.
- 【*ID*】should be set in the menu on each unit in ascending values (i.e. 1,2,3...)
- ID addresses are accessible from Ch8 on the DMX512 controller.

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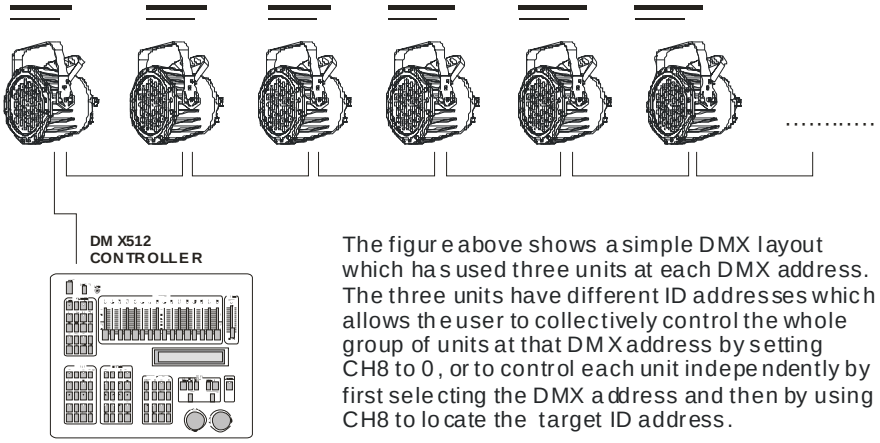
Example:

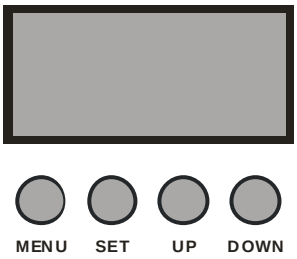


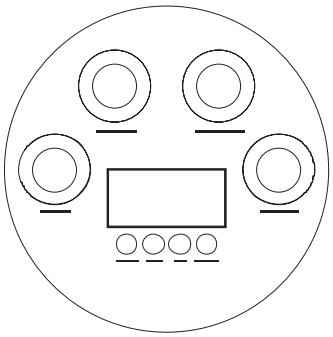
The figure above shows a simple DMX layout which has used three units at each DMX address. The three units have different ID addresses which allows the user to collectively control the whole group of units at that DMX address by setting CH8 to 0, or to control each unit independently by first selecting the DMX address and then by using CH8 to locate the target ID address.

3 DISPLAY PANEL OPERATION

3.1 BASIC

The LED fixture is mounted with a LCD display and 4 control buttons.





【**MENU**】 scroll through the main menu or return to the main menu

【 **SET** 】 enter the currently selected menu or confirm the current function value

【 **UP** 】 scroll 'UP' through the menu list or increase the value of the current function

【**DOWN**】 scroll 'DOWN' through the menu list or decrease the value of the current function

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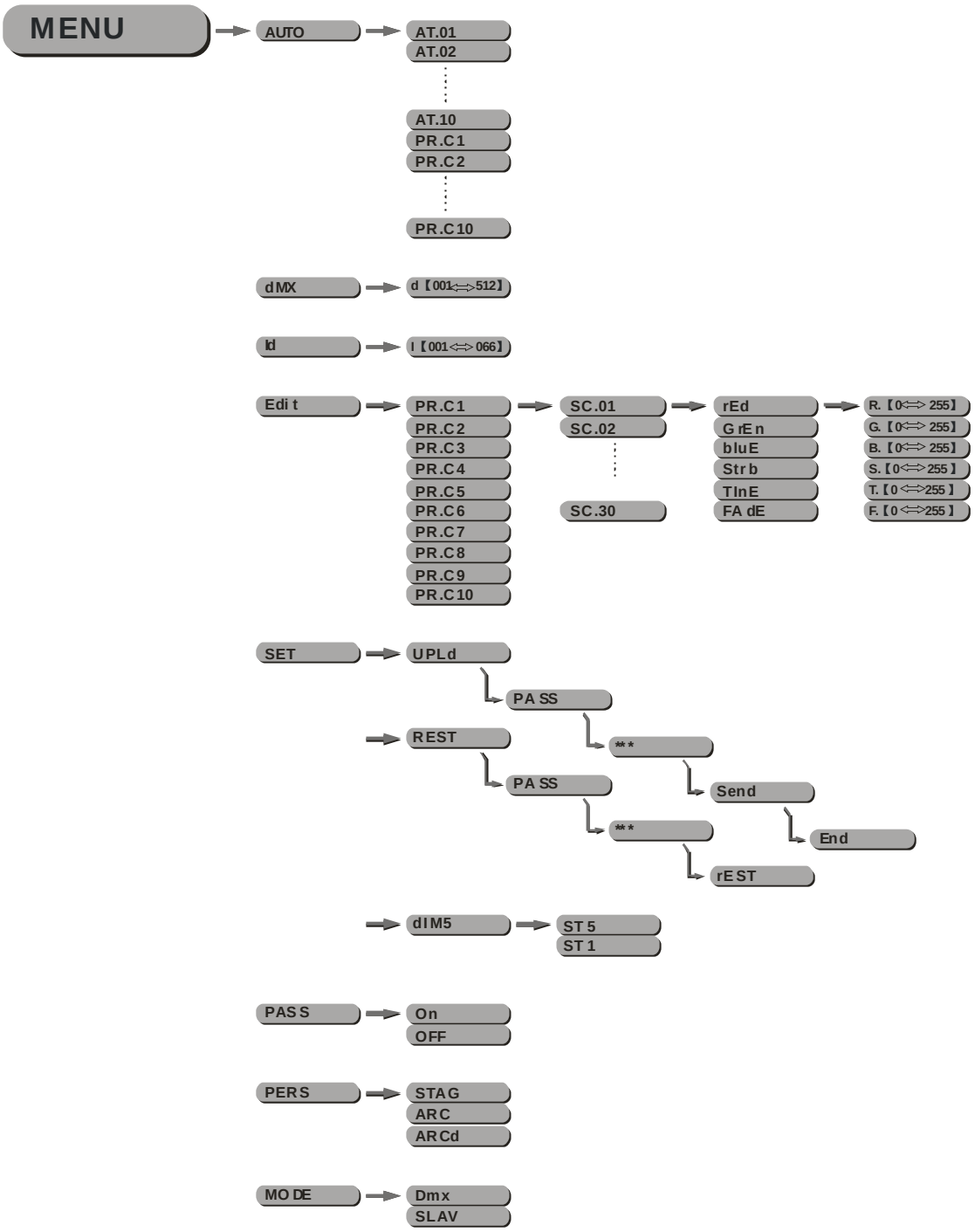
3.2 MENU



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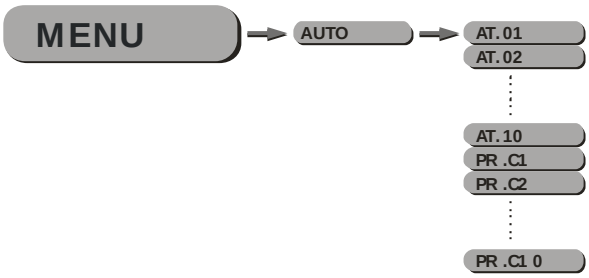
3.3 ACTIVATING AUTO PROGRAMS



【*Auto*】

- Select the target [Auto] program and press【***SET***】
- Programs【***AT.01***】to【***AT.10***】are fully pre-programmed and will not be altered by changes in【***EdIT***】mode
- Programs【***PR.C1***】to【***PR.10***】are fully pre-programmed and can be edited in【***EdIT***】mode

3.4 DMX512 SETTINGS

【*dMX*】

- Enter the【***dMX***】mode to set the DMX ADDRESS.

3.5 ID ADDRESS

【*Id*】

- Enter the【***Id***】mode to set the ID ADDRESS

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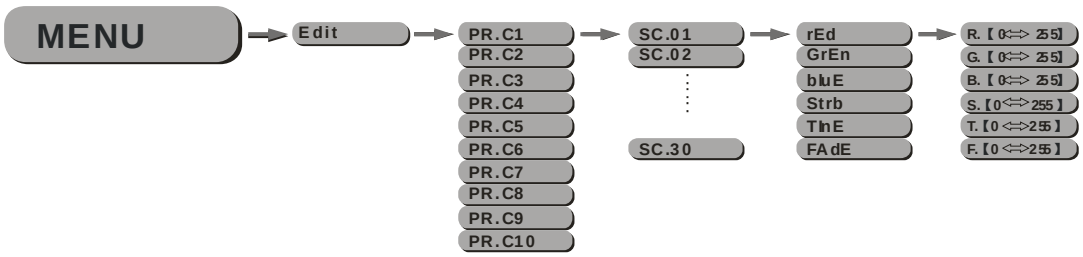
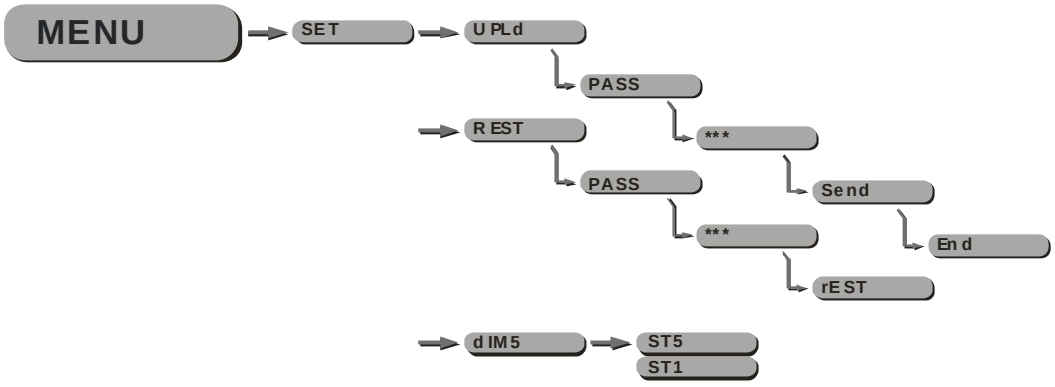
3.6 EDITING CUSTOM PROGRAMS



【*EdIT*】

- Enter the **【*EdIT*】** mode to edit the custom programs **【*PR.C1*】** to **【*PR.10*】**
- Each custom program has 30 steps that can be edited
- Each step allows the creation of a scene using RED **【*rED*】**, GREEN **【*GrEn*】**, BLUE **【*bLUE*】**, STROBE **【*STrB*】**, TIME **【*TInE*】** & FADE **【*FAdE*】**

3.7 SPECIAL SETTINGS



【*SET*】

- Select **【*UPLd*】** to upload the custom programs from the current MASTER unit to the SLAVE units.
- In order to activate the upload function the password must be entered
- Password is the same as the main access password
- When uploading the MASTER and SLAVE units will display YELLOW
- If an error occurs when uploading the MASTER and/or SLAVE units will display RED
- On successful uploading of the custom programs the MASTER and SLAVE units will display GREEN.
- In order to reset custom modes to default values select **【*rEST*】**
- Enter the **【*dIM5*】** to select dimmer start value **【*ST5*】** or **【*ST1*】**. The default setting is **【*ST5*】.**

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3.8 ACTIVATE THE PASSWORD

【*PASS*】

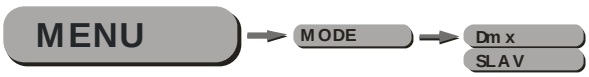
- Enter the **【*PASS*】** mode to select whether the access password is on or off.
- In order to enter access password it is necessary to first press **【*SET*】**
- Access password is **【*UP*】** + **【*DOWN*】** + **【*UP*】** + **【*DOWN*】**

3.9 PERSONALITY

【*PERS*】

- Enter the **【*PERS*】** mode to select DMX mode: **【*STAG*】**, **【*ARC*】** or **【*ARCd*】** .

3.10 RUN MODE



【*MODE*】

- Enter the **【*MODE*】** mode to set working mode.
- **【*Dmx*】** mode is for using the DMX512 controller to control the fixtures.
- **【*SLAV*】** mode is for Master -- Slave operation.

Note: When fixtures are under Auto program operation, the **【*MODE*】** no works.

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4 USING A DMX512 CONTROLLER

4.1 BASIC ADDRESSING

- Connect all of the units in series using standard DMX512 signal cable or the IP65 rated cable provided.
- Set the DMX512 address in the【***DMX***】menu.
- It is possible to have the same DMX address or independent addresses for each fixture.

4.2 CHANNEL ASSIGNMENT

- Note: This product have three DMX512 channel configuration: 【***STAGE***】,【***ARC***】and 【***ARCd***】

STAGE

CHANNEL	VALUE	FUNCTION
1	0⇔255	MASTER DIMMER
2	0⇔255	**RED** (or STEP TIME when PR.01-PR.10 is activated)
3	0⇔255	**GREEN** (or FADE TIME when PR.01-PR.10 is activated)
4	0⇔255	BLUE
5	0⇔9	NO FUNCTION
	10⇔29	RED
	30⇔39	RED(85%)+YELLOW(15%)
	40⇔49	RED(60%)+YELLOW(40%)
	50⇔69	YELLOW
	70⇔79	YELLOW(85%)+GREEN(15%)
	80⇔89	YELLOW(60%)+GREEN(40%)
	90⇔109	GREEN
	110⇔119	GREEN(85%)+BLUE(15%)
	120⇔129	GREEN(60%)+BLUE(40%)
	130⇔149	BLUE
	150⇔159	BLUE(85%)+CYAN(15%)
	160⇔169	BLUE(60%)+CYAN(40%)
	170⇔189	CYAN
	190⇔199	CYAN(50%)+PURPLE(50%)
	200⇔219	PURPLE
	220⇔229	PURPLE(50%)+WHITE(50%)
	230⇔249	WHITE(95%)+YELLOW(5%)
	250⇔255	WHITE

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CHANNEL	VALUE	FUNCTION
6	0⇔9	NO FUNCTION
	10⇔63	STROBE 1
	64⇔127	STROBE 2
	128⇔191	STROBE 3
	192⇔255	STROBE 4
7	0⇔9	NO FUNCTION
	10⇔19	AT.01 (AUTO 01)
	20⇔29	AT.02
	30⇔39	AT.03
	40⇔49	AT.04
	50⇔59	AT.05
	60⇔69	AT.06
	70⇔79	AT.07
	80⇔89	AT.08
	90⇔99	AT.09
	100⇔109	AT.10. (AT.01 to AT.09 cycle 5min each AUTO mode)
	110⇔119	PR.C1 (CUSTOM PROGRAM 1)
	120⇔129	PR.C2
	130⇔139	PR.C3
	140⇔149	PR.C4
	150⇔159	PR.C5
	160⇔169	PR.C6
	170⇔179	PR.C7
	180⇔189	PR.C8
	190⇔199	PR.C9
	200⇔255	PR.10
8	0⇔9	ID ADDRESS ID1~ID66
	10⇔19	ID1
	20⇔29	ID2
	30⇔39	ID3
	40⇔49	ID4
	50⇔59	ID5
	60⇔69	ID6
	70⇔79	ID7
	80⇔89	ID8
	90⇔99	ID9
	100⇔109	ID10
	110⇔119	ID11
	120⇔129	ID12
	130⇔139	ID13
	140⇔149	ID14
	150⇔159	ID15
	160⇔169	ID16
	170⇔179	ID17
	180⇔189	ID18
	190⇔199	ID19

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CHANNEL	VALUE	FUNCTION
8	200⇔209	ID20
	210	ID21
	211	ID22
	⋮	⋮
	251	ID62
	252	ID63
	253	ID64
	254	ID65
	255	ID66
9	0⇔250	CH1, CH2, CH3 & CH4 INSTANT FADER RESPONSE
	251⇔255	CH1, CH2, CH3 & CH4 DELAY FADER RESPONSE

ARC

CHANNEL	VALUE	FUNCTION
1	0⇔255	RED
2	0⇔255	GREEN
3	0⇔255	BLUE

ARCd

CHANNEL	VALUE	FUNCTION
1	0⇔255	MASTER DIMMER
2	0⇔255	RED
3	0⇔255	GREEN
4	0⇔255	BLUE

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4.3 BASIC INSTRUCTIONS FOR DMX512 OPERATION

MASTER DIMMER
- CH1 controls the intensity of the currently projected color
- When the slider is at the highest position (255) the intensity of the output is the maximum

RED, GREEN & BLUE COLOR SELECTION
- CH2, CH3 & CH4 control the intensity ratio of each of the RED, GREEN & BLUE LEDs.
- When the slider is at the highest position (255) the intensity of the color is the maximum.
- CH2, CH3 & CH4 can be combined together to create over 16 million colors.
- CH2, CH3 & CH4 have priority over CH4, CH5, CH6 & CH7

COLOR MACROS
- CH5 selects the required COLOR MACRO
- CH5 has priority over CH2, CH3 and CH4
- CH1 is used to control the intensity of the COLOR MACRO

STROBE
- CH 6 controls the strobe of CH1 to CH5
- Strobe 1 is with RGB in-step
- Strobe 2 is with RGB out-step
- Strobe 3 is a pulse strobe (slow on/fast off)
- Strobe 4 is a pulse strobe (fast on/slow off)

ID ADDRESS SELECTION
- CH8 is used to select the target ID address.
- Each independent DMX address may have upto 66 independent ID addresses.
- An ID address of 0 will activate all ID address locations.

AUTO
- CH7 selects the preset AUTO programs AT.01-AT10 or the custom AUTO programs PR.C1-PR.10
- When activating the custom AUTO programs PR.C1 to PR.10 then it is possible to control the
- STEP TIME and FADE TIME using CH2 and CH3 respectively.

CH9 is used to select whether the unit operates with an instant response to the DMX fader or whether there is a preset delay response.

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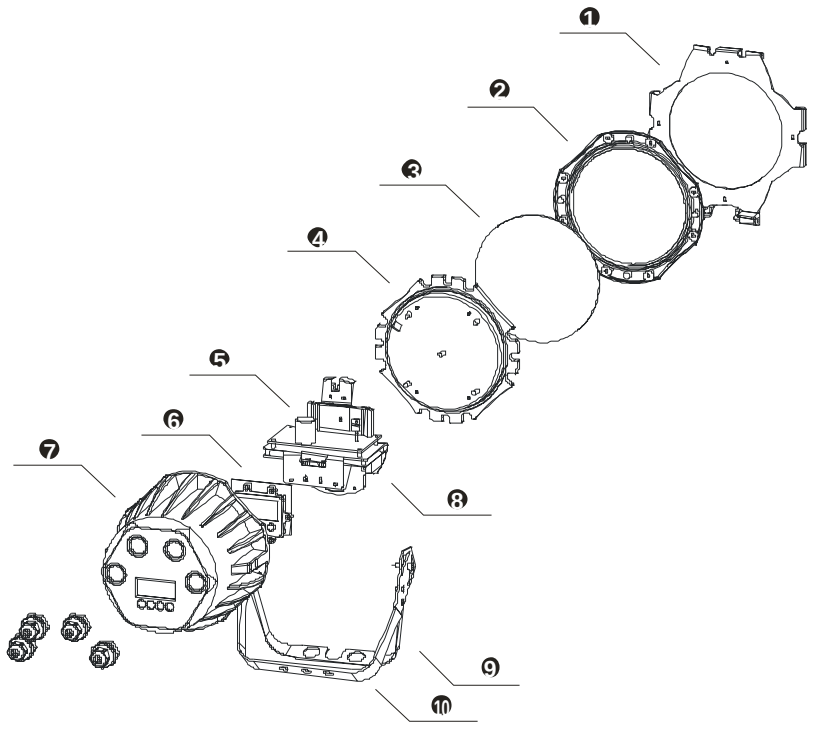
5 APPENDIX

5.1 MAINTENANCE

No	ITEM
1	Gel holder
2	Upper cover
3	Glass plate
4	LED heat-transfer plate
5	Power supply
6	Display board
7	Casing
8	Driver board
9	Secondary support
10	Main support



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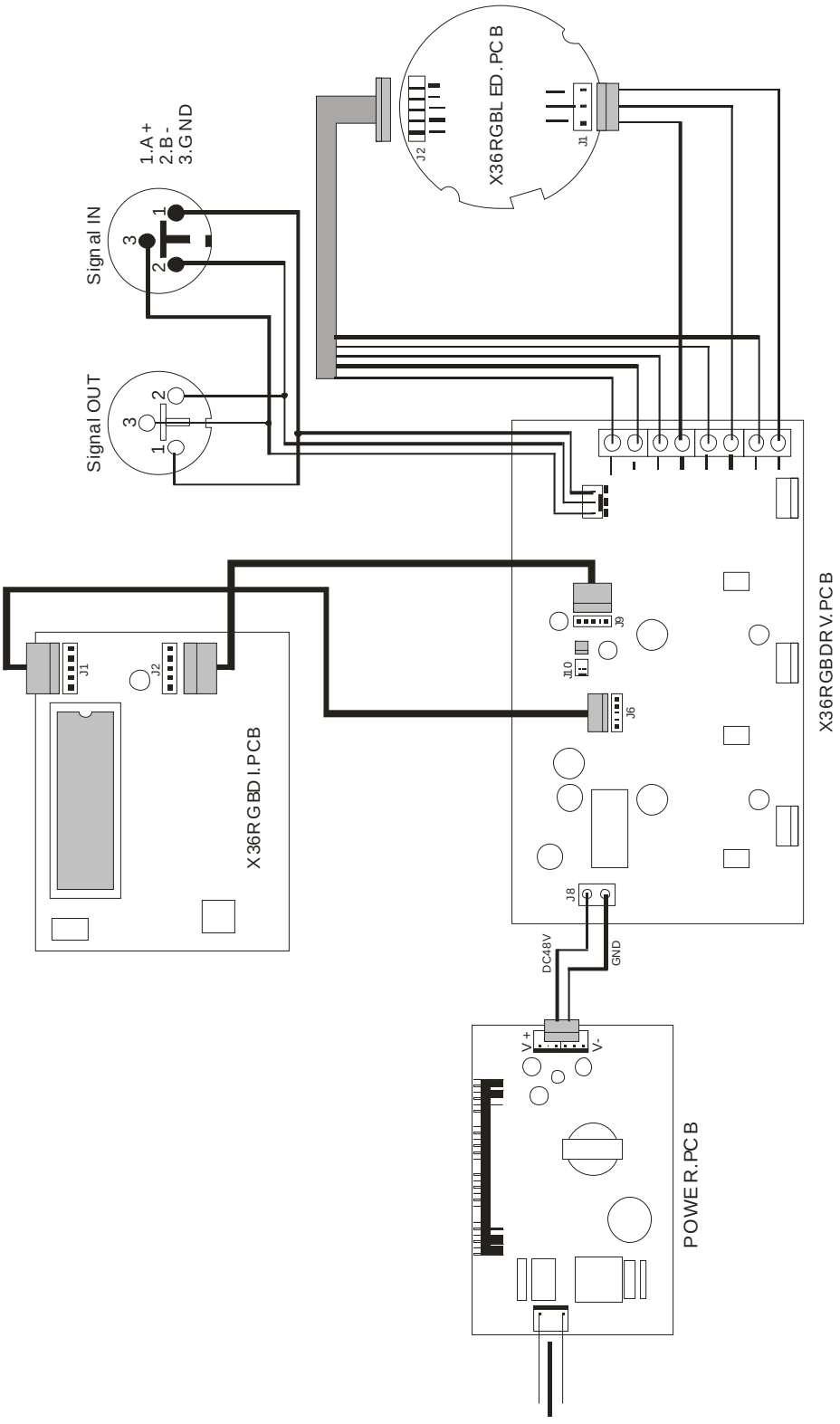
5.2 ELECTRICAL DIAGRAM



ADD : 19 Lacist St. Wesbrark, Maine, U.S.A. (04092)
Phonel : (1) 207-712-3004
sales@te-lighting.com
http://www.te-lighting.com